

ABSTRACT

A freestanding or Roman bathtub plumbing system including a bathtub filler (such as a spout and/or hand-held shower) controlled by a compact thermostatic mixing valve. The thermostatic mixing valve is installed in a bathtub plumbing set having a hand-held shower accessory. The thermostatic mixing valve receives hot and cold water from the main hot and cold water inlet pipes, respectively, located upstream of the respective hot and cold water control valves used to control the supply of water to the fillers. The hot and cold water feed pipes are each hydraulically connected to a first respective hot and cold water inlet of the thermostatic mixing valve. The bathtub fillers are hydraulically connected to the outlet of the thermostatic mixing valve, such as by a pipe or flexible hose. Hot and cold water entering the thermostatic mixing valve are mixed therein independently; water exiting the thermostatic mixing valve is characterized by a predetermined maximum temperature, such that a tub occupant will not be accidentally scalded.